

## **IN THE SPECIFICATION**

Page 6, line 23 through page 7, line 4, please replace with the following paragraph:

In another aspect of the present invention, the manifold device may be provided by a plurality of laminated plate members which collectively define the body of the manifold. At least two plate members are fixedly mounted together in a manner cooperatively defining at least one of the aspiration conduits and the dispensing conduits. The two plate members include a first plate member having a first interface surface and a second plate member having an opposed second interface surface fixedly joined therebetween at a first interface. This first interface surface defines a plurality of first grooves which cooperate with the second interface surface of the second plate member to define at least the aspiration conduits or the dispensing conduits.

Page 19, line 21 through page 20, line 5, please replace with the following paragraph:

The incorporation of ink-jet drop-on-demand printing technology into the dispense assembly of the present invention provides significant advantages vis-a-vis known systems for printing microarrays. In particular, the ability to deliver independent, short-duration,  $[[\tau]]$  pressure pulses associated with ink-jet print valves enables the non-contact tunable delivery of reagent sample volumes in the range of about  $(10)^{10}$  to about  $(10)^{-12}$  liters. Upon application of a pressure pulse, at least one droplet of sample or reagent fluid is ejected from the manifold sample path through the corresponding nozzle member 48 onto substrate surface 26. As used herein, the term "non-contact" refers to the lack of contact between the dispense manifold and nozzles, and the target substrate during deposition. Typically, in these designs, the fluid is communicated through channels micromachined into an ink-jet style printhead - such as those commonly used in desktop and industrial printers.